Asynt Pressure Reactor Overview

Designed & Engineered in the UK
For working safely under pressure

Single
Benchtop
Up to 2,000 mL
Versatile design with multiple options available for pressure & temperature ranges.

Pilot
<50 L +
Designed to suit your personal criteria, with multiple options available for pressure and for temperature range.

Parallel
Multicell
10 x 30 mL
Compact parallel pressure reactor with wide range of upgrade options available.

Multicell PLUS
Up to 8 x 100 mL
Highly configurable system with multiple upgrade options available.

Configuration
As standard, our vessels can be built to your desired specification.

Common options
- Stainless steel 316 material
- 50 or 180 bar max working pressure
- 250 °C max temperature
- Heating using hotplate stirrer with DrySyn adapter
- Pressure relief valve, gauge & thermowell
- Standard Swagelok fittings
- Magnetic agitation

Upgrade options
- Exotic metals eg. Hastelloy or inconel
- Pressure to your requirement; 500 bar +
- Temperature to your requirement
- Upgrade to dedicated heater; 800 °C+
- Sampling & charging
- Liners: PTFE, glass
- Cooling
- Hosing for connection to gas lines
- Overhead stirring
- Burst disc & associated pipework

enquiries@asynt.com +44 (0)1638 781709 www.Asynt.com
Ideal for use in:
- Hydrogenations & other gas phase reactions
- Hydrothermal synthesis
- Homogeneous and heterogeneous catalysis
- Corrosion testing
- Catalyst Screening, reaction optimisation & materials testing
- Supercritical studies

The Asynt Service
By chemists, for chemists
- Your reactor system will be designed around your application/budget
- We offer solutions from simple reactor vessels to elaborate reactor systems
- After design & manufacture, we offer installation, servicing & testing spares
- Every reactor is fully tested & certified
- All relevant safety standards conformed to

www.asynt.com/products/high-pressure-reactors

Find out more about the Asynt pressure reactor range via our YouTube channel!

Ask us about PressureSyn
You hold the key!
Features unique safety key & locking clamp designed by the chemists and engineers at the University of Nottingham.

Customise, don’t compromise
Contact us today to discuss your requirements!

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